

Poster Presentations

Assays and Analytical Methods

First Author	Title
<i>Bao, Yuping</i>	Potential Applications of the AC relaxation of Ferromagnetic Nanoparticles in Bio-sensing
<i>Chen, Jacky</i>	Quantitative readings of magnetic immunoassay based on ICT-format using superparamagnetic particles
<i>Chiriac, H.</i>	Magnetic Particles - Microwires Arrays Assembly for Biosensors
<i>Creanga, Dorina</i>	Magnetic nanoparticles sensing with Pseudomonas based biosensor
<i>Cui, Yali</i>	GoldMag Particles and Their Applications in Immunoassay
<i>Dunca, Simona</i>	Magnetic nanoparticles interfering with bacterial iron metabolism
<i>Finne, Erling</i>	Improved surface for presentation of antigens in magnetic bead based immunoassays
<i>Garcia Prieto, Ana</i>	A uniform force magnetic actuator for optical microscopes
<i>Gutierrez, Lucia</i>	Reflection about the influence of the iron speciation on the tissue magnetic susceptibility
<i>Iiguni, Yoshinori</i>	Electromagnetophoretic Force Measurement of Interaction between Lectin and Oligosaccharide on Yeast Cell Surface
<i>Kovarski, A. L.</i>	Using of Paramagnetic Sensors for Ferrofluids Studying
<i>Krause, Hans-J.</i>	Magnetic Particle Detection by Frequency Mixing for Immunoassay Applications
<i>Kriz, Kirstin</i>	Magneto Immunoassays (MIA) for Detection of Human Plasma Proteins
<i>Lapicki, Adam</i>	Energy dispersive x-ray spectroscopy and wet-scanning electron microscopy for biomolecular recognition
<i>Li, Wenzhong</i>	Analysis of magnetic gene carrier particle capture by a magnetic pole matrix
<i>Ludwig, Frank</i>	Characterization of magnetic nanoparticles combining fluxgate magnetorelaxometry, static M(H) and ac susceptibility measurements
<i>Mandal, Swapan</i>	Fluorescent magnetic emulsion droplets: Potential material for multiplexed optical coding of biomolecules
<i>Meyer, Martin</i>	CRP determination based on magnetic beads
<i>Möller, Winfried</i>	Motion and twisting of magnetic particles ingested by alveolar macrophages in the human lung: effect of smoking and disease
<i>Olabi, A. G.</i>	Finite Element Analysis for Electro-Magnetic Solenoid Used In Medical Devices
<i>Prieto-Astalan, A.</i>	Measuring the response of thermally blocked magnetic nanoparticles to a pulsed magnetic field.
<i>Rösnerová, Šárka</i>	Magnetic enzyme and affinity reactors for analysis of biologically important proteins: allergens and autoantigens
<i>Safarikova, Mirka</i>	Preconcentration of middle oxyethylated nonylphenols from water samples on magnetic solid phase
<i>Schmidl, Frank</i>	Characterization of nanoparticle distribution of ferrofluids by magnetic relaxation measurements
<i>Serdiuk, Katerina</i>	Mathematical modelling of the capture of nanoparticles for magnetic drug delivery
<i>Tondra, Mark</i>	Detection of flowing magnetic microbeads: progress towards high throughput magnetic flow cytometry
<i>Wiekhorst, Frank</i>	Magnetorelaxometry: A method for Localization and Quantification of Magnetic Drug Carriers in Medical Applications
<i>Wirix-Speetjens, R.</i>	Immunosensing based on magnetic labels: sensitivity enhancement by active guiding of superparamagnetic particles

Drug Targeting, Magnets and MRI

<i>Ally, Javed</i>	Visualization of a Magnetic Aerosol
<i>Avilés, Misael</i>	In Vitro Studies of Implant-Assisted Magnetic Drug Targeting with a Single Ferromagnetic Wire as a First Step Toward In Vivo Studies with Animal Models
<i>Ayala, Oscar</i>	Characterization of Different Magnetite-Cobalt Nanoparticles in Hydrocarbon Based Magnetic Fluids by means of Magnetic Resonance Measurements
<i>Brusentsov, Nikolay</i>	Magnetohydrodynamic thermochemotherapy of tumor metastases
<i>Carpenter, Everett</i>	Iron and Iron Oxide Nanoparticles as Novel MRI contrast agents
<i>Caviness, Patricia</i>	Magnetic Nanoparticle Transport across the Blood Brain Barrier: Integrity and Perfusion Analysis
<i>de Azevedo, Ricardo</i>	Magnetic Fluid and Photosensitizer liposome complex: preliminary evaluation for Oral Cancer therapy

<i>Dutz, Silvio</i>	Release Profiles of Novel Capsules for Remote Controlled Drug Delivery
<i>Fernández, Rodrigo</i>	Core-shell iron and iron-oxide nanoparticles for potential biomedical applications
<i>Flynn, Ed</i>	Magnetic nanoparticles in-vivo detection of transplant rejection
<i>Fornara, Andrea</i>	PLLA-PEG Nanospheres encapsulating monodisperse iron oxide nanoparticles for simultaneous drug delivery and MRI visualization
<i>Freitag, Klaus</i>	Magnetic Microspheres and Cardiac Lipoprotein Lipase (LPL)
<i>Gaharwar, Akhilesh</i>	Novel Route to Incorporating Magnetic Nanoparticles in Thermoresponsive Microgel
<i>Gelbrich, Thorsten</i>	New Perspectives for Therapeutics and Separation by the Combination of Magnetic Nanoparticles with Thermoresponsive Polymers
<i>Hartung, Annegret</i>	Twofold labelled macrophages and their characterization in MRI
<i>Khan, M. Aslam</i>	Stimuli-Responsive Hydrogel-Coated Magnetic Nanoparticles
<i>Lee, Stanley</i>	Modeling of Forces Exerted by Magnetic Bandages
<i>Leuschner, Carola</i>	Engineering of Iron Oxide Nanoparticles for Treatment and Improved Intracellular Accumulation in Breast Cancer Cells
<i>Nunez, Luis</i>	Nanoparticles for the Enhancement of Oncology Treatment Modalities
<i>Oghabian, M.</i>	Effect of MR protocols on detectability of Ultra-small Super Paramagnetic Iron Oxide nano-particles (USPIO)
<i>Phanapavudhikul, P.</i>	Design and performance of magnetic nanocomposite particles for the control of targeted drug release
<i>Pinkernelle, J.</i>	Detection of Magnetite Loaded Single Cells with a Clinical MR-Scanner
<i>Primo, Fernando</i>	Magnetic nanoemulsions as drug delivery system for Foscan® topical application in Photodynamic Therapy (PDT) of skin-cancer
<i>Ramanujan, Raju</i>	Magnetic nanoparticles for cancer treatment
<i>Rosengart, Axel</i>	Tissue Plasminogen Activator Encapsulated Magnetic Carriers for Stroke Therapy
<i>Rosengart, Axel</i>	Improvement of In Vitro Thrombolysis Using Magnetic Carriers
<i>Rosengart, Axel</i>	Tissue Plasminogen Activator Encapsulated Magnetic Carriers for Stroke Therapy
<i>Seliger, C.</i>	Simulation of Magnetic Drug Targeting with an in vitro circulation model
<i>Shameli, Ehsan</i>	Modeling and Analysis of a Magnetic Positioning Device for Aerosol Particles Targeting in Biomedical Applications
<i>Shao, Huiping</i>	Preparation of Biocompatible MR Imaging Contrast Agents with Fe ₃ O ₄ Nanoparticles for Liver Diagnosis
<i>Sincai, Mariana</i>	The efficiency of some magnetic nanocompounds in the skin protection against UV radiations
<i>Slavov, Lyubomir</i>	Magnetically induced organization in nanosized magnetite/β-cyclodextrin biocompatible ferrofluid
<i>Soler, Maria</i>	In Vitro Studies of Interaction between Biocompatible Magnetic Fluids and mice's blood
<i>Steinke, Franziska</i>	Rotating Magnetic Macrospheres as Heating Mechanism for Remote Controlled Drug Release
<i>Sun, Hanwen</i>	Preparation and targeting of MPEG-modified superparamagnetic nanogels labeled by ¹⁸⁸ Re
<i>Surguladze, Besik</i>	New method of sentinel lymph node detection in malignant tumors using the preparation "Unimag"
<i>Takeda, Shin-ichi</i>	Theoretical and Experimental Study of Magnetic and Electrostatic Interactions between Drugs and Cell Surfaces
<i>Takeda, Shin-ichi</i>	Fundamental Study on Navigation System for Magnetically Targeted Drug Delivery using Model System of Blood Vessel
<i>Timko, Milan</i>	The focused magnet for magnetic drug targeting
<i>Torno, Michael D.</i>	Investigation of tPA-encapsulated magnetic carriers for in vivo magnetically-guided thrombolysis
<i>Udrea, Laura Elena</i>	The Deposition of Magnetic Colloids in Capillary Tubes – An Experimental Study
<i>Wei, Kuo-Chen</i>	Biodistribution of Nanoparticle to External Magnetic Field
<i>Wong, John Erik</i>	Novel Magnetic Nanoparticles Shell on a Thermoresponsive Microgel Core
<i>Yuill, William</i>	Modeling Mass Transfer Processes for Targeting Drugs with Magnetically Responsive Nanoparticles
<i>Zablotskaya, Alla</i>	Synthesis and characterization of nanoparticles with iron oxide magnetic core and active trialkylsilylated aliphatic alkanolamine shell
<i>Zabow, Gary</i>	Magnetic resonance imaging of individual magnetic micro-particles for biological tagging and tracking

Magnetic Hyperthermia

- Baldi, Giovanni* Synthesis and Characterisation of Coated Ferrite Nanoparticles for Hyperthermic Applications
- Bastús, Neus* Nanoparticle-Mediated Local and Remote Manipulation of Protein Aggregation
- Dutz, Silvio* Influence of Dextran Coating on the Magnetic Behavior of Iron Oxide Nanoparticles
- Farrell, Dorothy* Iron oxide nanoparticles for magnetic hyperthermia treatments
- Farrow, Neil* A heating instrument for the testing of magnetic particles for hyperthermia
- Goya, Gerardo* Experimental Determination of Concentration Threshold in Fe₃O₄ Colloids for Magnetic Fluid Hyperthermia.
- Jozefczak, Arkadiusz* The study of heat effect and acoustic properties of dextran stabilized magnetic fluid
- Le Renard, P. E.* Injectable implants for hyperthermic treatment of solid tumors
- Nedzved, Olga* Hyperthermia with Magnetosomes: Spatial and Time Distribution of Temperature
- Pollert, Emil* Magnetic properties of La_{0.75}Sr_{0.25}MnO₃ nanoparticles for self-controlled magnetic hyperthermia
- Prasad, N. K.* Biocompatible suspension of TC tuned La_{0.73}Sr_{0.27}MnO₃: A possibility for magnetic hyperthermia
- Sadeghiani, Neda* Biocompatibility/toxicity evaluation of polyaspartate-coated magnetite nanoparticles
- Shlyakhtin, Oleg* New manganite-based mediators for self-controlled magnetic hyperthermia
- Upadhyay, R. V.* Low field dc-magnetization study of Ho³⁺ doped Mn-Zn ferrofluid
- Wang, Xuman* Study on the Preparation of Magnetite Particles with High AC-losses
- Yu, Ji-Hun* Chemical Vapor Synthesis of SiO₂ Coated gamma-Fe₂O₃ Nanocomposite Powder for Hyperthermia Applications
- Zeisberger, M.* Metallic Cobalt Nanoparticles for Heating Applications
- Zhang, Liying* Heating mechanism of magnetite fluid with high specific absorption rate for application in hyperthermia

Magnetic Separations

- Chalmers, Jeff* The Discovery and Quantification of the Intrinsic Magnetic Susceptibility of a strain of Bacillus subtilis spores
- Chen, Haitao* Portable Magnetic Separator Design for Sequestration of Medicated Magnetic Nanospheres from Human Arterial Flow
- Chen, Haitao* In Vitro Sequestration Study Employing a Novel Magnetic Separator for Complex Fluids
- Fujii, Shigeo* Isolation of Tumor Cells by Highly Magnetic Micro-beads
- Iacob, Gheorghe* High Gradient Magnetic Separation of Red Blood Cells from Whole Venous Blood Using Ordered Matrices
- Jing, Ying* Determination of quality of immunomagnetic reagents by cell magnetophoresis measurement
- Karl, Stephan* Improved design of a continuous magnetic flow fractionator
- Kennedy, David* Tools for Proportional Magnetic Sorting of Cells and Particles
- Le Drogoff, Boris* Performance of microfluidic integrated micro-electromagnetic traps for DNA biosensing: The influence of magnetic carrier size
- Lund-Olesen, T.* Capture of DNA in microfluidic channel using magnetic beads: increasing capture efficiency with integrated microfluidic mixer.
- Moore, Lee* Evaluation of Magnetic Contrast Agent and Magnetic Nanospheres to Enrich Capacitated Sperm for Assisted Reproductive Techniques
- Ottow, Kim* Batch purification of the Replication Protein A complex using Chelating M-PVA magnetic supports
- Prahl, Nicole* Combination Of Micron- And Nanosized Magnetic Particles - Synergy For Multiparameter Cell Sorting
- Safarik, Ivo* Magnetic copper alginate aggregates for metal chelate adsorption of proteins
- Schneider, Thomas* Continuous flow magnetic cell fractionation based on antigen expression level
- Spanova, Alena* Hydrophilic Magnetic Particles for Molecular Diagnostics
- Steingroewer, Juliane* Biomagnetic separation of salmonella spp. with high affine and specific ligands isolated by phage display
- Tong, Xiaodong* The Scale-up of T cell depletion for mismatch, Bone Marrow Transplants
- Vatta, Laura* Potential large-scale synthesis of magnetite nanoparticles and their use in solvent extraction and ion exchange technology
- Williams, Steve* Determination of Distribution in Magnetite Content for Nanoparticle Samples from their Magnetic Field-Flow Fractionation Elution Profiles

Others and Biological Applications

<i>Akhavan-Tafti, H.</i>	Rapid, Lysis-free Extraction of Nucleic Acids from Biological Materials
<i>Chang, Jin</i>	Study on Magnetic Nanoparticles as Gene Vector
<i>Cregg, P.</i>	Inclusion of Interparticle Interactions in the Modelling of Magnetic Drug Targeting
<i>Derks, R.J.S.</i>	Magnetic Bead Manipulation in a Sub-Microliter Fluid Volume applicable for Biosensing
<i>Lynev, Oleg</i>	A Model for Magnetic Bead Microrheometry
<i>Mirowski, Elizabeth</i>	Manipulation of magnetic particles by patterned arrays of magnetic spin-valve traps
<i>Pascual, Ilona</i>	Magnetic Molecules for Radioactive Wastewater Treatment
<i>Pradhan, Pallab</i>	In vitro evaluation of biocompatibility and cellular interactions of lauric acid and dextran coated magnetite nanoparticles
<i>Racuciu, Mihaela</i>	Cytogenetically Changes Induced by Aqueous Ferrofluids in Agricultural Plants
<i>Racuciu, Mihaela</i>	Water based ferrofluid influence upon chlorophylls in cereals
<i>Safarikova, Mirka</i>	Cyclodextrin glucanotransferase production by semicontinuous cultivation of magnetically modified <i>Bacillus circulans</i> ATCC 21783 cells
<i>Schwalbe, Manuela</i>	Cellular uptake of magnetite/maghemite nanoparticles in the presence of various carbohydrates

Synthesis and Characterization

<i>Aurich, Konstanze</i>	Polyaspartate coated magnetite nanoparticles for biomedical application
<i>Babic, Michal</i>	Poly(N,N-dimethylacrylamide)-Modified Maghemite Nanoparticles
<i>Bica, Doina</i>	Sterically stabilized water based magnetic nanofluids: synthesis, structure and properties
<i>Boguslavsky, Y.</i>	Functional nanosize fluorescent and non-fluorescent magnetic particles of narrow size distribution
<i>Bonacchi, Daniele</i>	Synthesis of Cobalt-Ferrite Nanoparticles: The control of the average size and its effect on magnetic properties and hyperthermic efficacy
<i>Brinza, F.</i>	Complex Magnetic Properties of NiO-SiO ₂ Core-shell Nanoparticles
<i>Brusentsova, Tatiana</i>	Synthesis and investigation of magnetic properties of substituted ferrite nanoparticles of spinel system Mn _{1-x} Zn _x [Fe _{2-y} L _y]O ₄
<i>Carja, Gabriela</i>	New Magnetic Organic - Inorganic Composite based on Hydrotalcite-Like Anionic Clays for Drug Delivery
<i>Cheng, Guangjun</i>	Synthesis, Characterization and Manipulation of Cobalt Nanoparticles
<i>Chung, Ting Hao</i>	Preparation of magnetic poly(styrene-glycidyl methacrylate) microspheres
<i>Darashkevich, Oleg</i>	Carbon magnetic nanotubes in bioassay of thyroid hormones
<i>Fahrni, Francis</i>	Magnetization and actuation of polymeric microstructures containing dispersed superparamagnetic nanoparticles
<i>Faridi-Magidi, Reza</i>	Preparation of Magnetic Latexes Functionalized with Chloromethyl Groups via Emulsifier- Free Miniemulsion Polymerization
<i>Finotelli, Priscilla</i>	Microcapsules of Alginate containing Magnetic Nanoparticles for Controlled Release of Insulin
<i>Giap, Duong</i>	Size controlled nanocrystalline BaFe ₁₂ O ₁₉ by hydrothermal method: Synthesis and characterization
<i>Goff, Jonathan</i>	Polysiloxane Magnetic Fluids for Use in Eye Surgery
<i>Gorschinski, A.</i>	Silica coated cobalt nanoparticles
<i>Gu, Hongchen</i>	Morphology and surface control for biological magnetic nanoparticles
<i>Hayem, Didier</i>	A Flow Focusing Prototype for the Preparation of Monodispersed Magnetic Microspheres Using Solvent Extraction
<i>Hua, Mu-Yi</i>	Synthesis, Characterization and Cell Growth-Arrest Effects of Nano-Magnetic Polyaniline
<i>Ji, Yanqin</i>	Preparation and Characterization of Superparamagnetic Polymer Nanospheres for the Separation of Radionuclides
<i>Joumaa, Nancy</i>	Preparation of organic monomer-based ferrofluid
<i>Kekalo, K.A.</i>	Nanostructured materials with magnetic properties
<i>Kim, Eun-Hee</i>	Magnetic Nanoparticles Encapsulated with beta-Glucan
<i>Kinoshita, Takuya</i>	Synthesis of Gold/Iron-Oxide Composite Nanoparticles for Magnetic Separation of Nucleic Acids
<i>Kluchova, Katerina</i>	Superparamagnetic maghemite nanoparticles from thermal conversion of iron(II) acetate
<i>Kuhn, Sam</i>	Multivalent enzyme-superparamagnetic nanoparticle conjugates
<i>Kurland, H.-D.</i>	Magnetic Iron Oxide Nanopowders Produced by CO ₂ Laser Evaporation

<i>Lacava, Zulmira</i>	Fibrosis induced by a double-coated magnetite nanoparticles administered in mice peritoneum
<i>Lin, Yu-Chen</i>	Synthesis, Characterization and Biocompatibility of Multi-Walled Carbon Nanotube and Polyaniline Composite
<i>Lütken Petersen, T.</i>	Controlling PEGylation of enzymes
<i>Macaroff, Patricia</i>	Synthesis, characterization and cellular uptake of the cationic magnetic liposome in cell line J774: a promising candidate for cancer treatment
<i>Makovec, Darko</i>	Synthesis of maghemite nanoparticles coated with a thin layer of silica
<i>Matei, Gabriel</i>	Microstructural investigation on oil based ferrofluids using AFM and TEM
<i>Mertz, Carol</i>	Designing long-circulating, radiotagged nanoparticles for monitoring vascular biodistribution
<i>Mouaziz, Hanna</i>	Functionalized submicron magnetic latex particles as a carrier of nucleic acids
<i>Olivetti, Elena</i>	Static and microwave magnetic properties of iron-oxide nanoparticles
<i>Pothayee, Nikorn</i>	Biodegradable and Biocompatible Magnetite Dispersions
<i>Qaddoura, Maher</i>	Magnetic Particles Coated with the Liquid Crystalline Monomer n-Alkoxy Benzoic Acid
<i>Qin, Jian</i>	Fe ₂ O ₃ @Poly(L,L-lactide) Core-Shell Nanoparticles Synthesized by Surface-Initiated In Situ Polymerization
<i>Reboul, Julien</i>	One-step Synthesis of Spinel Iron Oxide-based Core-corona Nanoparticles for in vivo Applications
<i>Robinson, Ian</i>	Design and Synthesis of Core-Shell Magnetic Nanoparticles: A Novel Approach
<i>Rutnakornpituk, M.</i>	Magnetite Nanoparticles Stabilized with Amphiphilic Copolymers in Aqueous Fluids
<i>Shpaysman, Nava</i>	Synthesis and characterization of air-stable iron nanocrystalline particles based on a single-step swelling process of uniform polystyrene microspheres
<i>Slawska, Anna</i>	Magnetic properties of a frozen suspension containing magnetic beads with maghemite nanoparticles
<i>Steitz, Benedikt</i>	PEI coated Superparamagnetic Iron Oxide Nanoparticles for Transfection
<i>Vadala, Michael L.</i>	Toward Oxidatively Stable Cobalt Nanoparticles
<i>Vatta, Laura</i>	A first look at the potential of magnetic nano-particles in enhancing transition and platinum group metal ion extraction
<i>Veintemillas, Sabino</i>	Continuous production of inorganic magnetic nanocomposites for biomedical applications by laser pyrolysis
<i>Willett, Thomas</i>	Smarter Magnetic Adsorbents
<i>Xie, Xin</i>	Rapid Preparation of Genomic DNA for Microarray Analysis Using a New Functional Magnetic Nanobeads
<i>Yagci Acar, Havva</i>	A Statistical Approach for Controlling Particle Size of PAA Coated Iron Oxide Nanoparticles
<i>Yu, C. H.</i>	Development Of Functional Coated Magnetic Nanoparticles For Bio-separation
<i>Zaichenko, A.</i>	Particle Morphology and Reactions of Magnetic Nanoparticles of Biomedical Application Synthesized In The Presence of Oligoperoxide Surfactants
<i>Závišová, Vlasta</i>	Encapsulation of Indomethacin into Magnetic Labelled Biodegradable Polymer
<i>Zhang, Lei</i>	Magnetic Ferroferric Oxide Microspheres: Preparation, Characterization & Applications
<i>Zhang, Qiuyu</i>	Encapsulation of Iron Oxide Particles via Miniemulsion Polymerization of Styrene
<i>Zhao, Hong</i>	Effects of Manufacturing Parameters on Size Distribution of Biodegradable Magnetic Microspheres